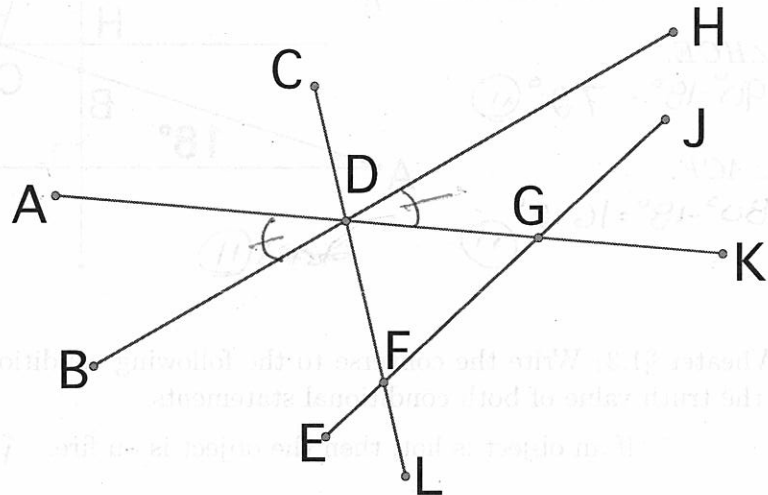


score 112: Quiz 1

Key



1. [4] TRUE/FALSE: Refer to the diagram above when answering the following questions. If true, circle T and explain briefly why the statement is true. Otherwise, circle F.

F The point C is on the ray \overrightarrow{FD}
 C is on the line ~~containing~~
 starting at F & headed toward D .

T $\angle ADB = \angle ABD$
 $\angle ABD$ is not even an angle that exists on the diagram.

F $\angle ADB$ has the same measure as $\angle HDG$
 b/c the 2 angles are vertical angles.

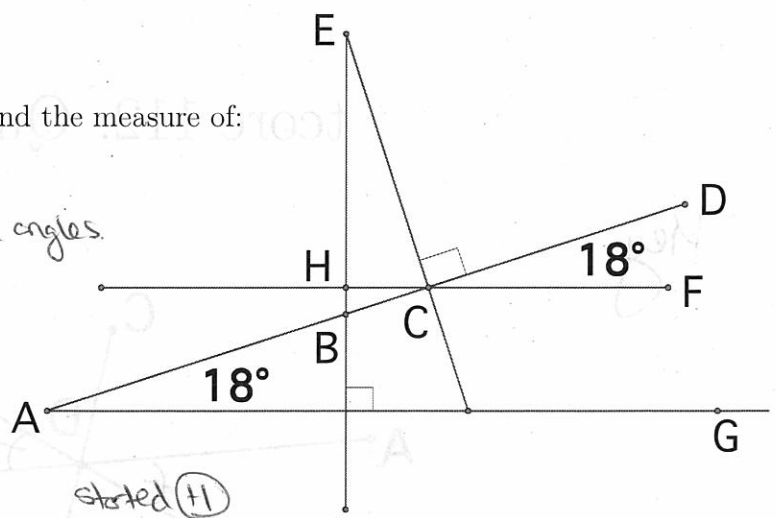
F If you miss class, you are still responsible for the information covered on that day.
 covered on the syllabus + 1st day of class

2. [4] Use the diagram below to find the measure of:

(a) $\angle ACH$.
 (+1) 18° b/c vertical angles.

(b) $\angle HCE$.
 $90^\circ - 18^\circ = 72^\circ$ (+1)

(c) $\angle ACF$.
 $180^\circ - 18^\circ = 162^\circ$ (+1)



3. [3] (Wheater §1.3) Write the converse to the following conditional statement. Determine the truth value of both conditional statements.

"If an object is hot, then the object is on fire. False (+5)

Converse: If an object is on fire, then it is hot. True (usually) (+1) (+1.5)

stated (+5) clear (+1.5)

4. [3] (Lang §2.1) Name three folds that Lang introduced in Section 2.1 (your readings).

- mountain folds
- valley folds
- inside reverse fold
- outward reverse fold
- alternating reverse fold
- crimp
- rabbit ear fold

5. [3] (TED talk) Name three things in the "real world" that uses origami.

- making car commercials
- stents for heart valves.
- moving large objects (like telescopes) into space
- airbags

6. [3] (Okasha) Evaluate the following definition for a scientist:

"Scientists use experiments to test falsifiable theories to investigate the world."

stated (+1)
 sense/readable/clear (+1)
 make a good point (+1)

20